

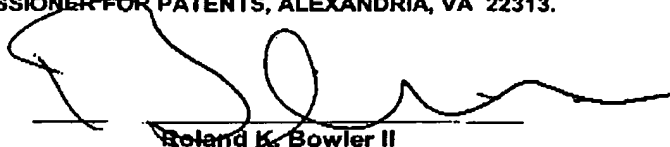
**RECEIVED
CENTRAL FAX CENTER****SEP 10 2005****PATENT
Expedited Procedure
After Final Response
Under 37 CFR 1.116****IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

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Roland K. Bowler II

Applicant:	BRANDT ET AL.)	
)	Examiner L. West
Appl. No.	10/074,970)	
)	Art Unit 2682
Confirm. No.	6905)	
)	Atty. Docket No. CS20456RL
Filed:	13 February 2002)	
Title:	"Reselection Optimization in Mobile Wireless Communication Devices And Methods Therefor"		

TRANSMITTAL UNDER 37 CFR 41.37(c)

Assistant Commissioner for Patents
Alexandria, Virginia 22313

Sir:

BRANDT ET AL.
"Reselection Optimization in Mobile Wireless
Communication Devices And Methods Therefor"
Atty. Docket No. CS20456RL

Appl. No. 10/074,970
Confirm. No. 6905
Examiner L. West
Art Unit 2682

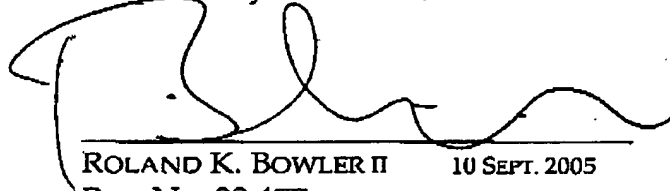
The following is enclosed in response to the Office action of 2
September 2005:

[X] Supplemental Brief under 37 CFR 41.37(c) (22 pages);
and

[X] Fee Calculation Sheet (DUPLICATE).

NO FEE IS DUE for the Supplemental Appeal Brief since notice
and appeal brief filing fees were paid previously on 13 April 2004.

Respectfully submitted,

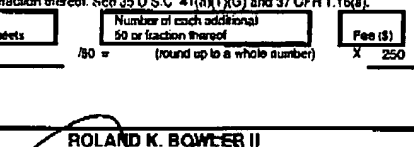


ROLAND K. BOWLER II
REG. No. 33,477

10 SEPT. 2005

MOTOROLA, INC.
INTELLECTUAL PROPERTY DEPT. (RKB)
600 NORTH U.S. HIGHWAY 45, AN475
LIBERTYVILLE, ILLINOIS 60048

TELEPHONE NO. (847) 523-3978
FACSIMILE NO. (847) 523-2350

FEE TRANSMITTAL				Complete If Known																																																																																																																																																							
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<input checked="" type="checkbox"/> Deposit Account: Deposit Account Number: 502117 Deposit Account Name: MOTOROLA INC. The Director is authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge fees(s) indicated below, except for the filing fee to the above-identified deposit account.				4. ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entry</th> <th>Small Entry</th> <th>Large Entry</th> <th>Small Entry</th> <th>Fee Description</th> </tr> <tr> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th>Fee Code (\$)</th> <th></th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>85</td><td>Surcharge - late filing fee or oath</td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late Provisional filing</td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td></tr> <tr><td>1812</td><td>2520</td><td>1812</td><td>2520</td><td>For filing a request for ex parte Reexamination</td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SI prior to Examiner action</td></tr> <tr><td>1805</td><td>1840*</td><td>1805</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td></tr> <tr><td>1251</td><td>120</td><td>2251</td><td>00</td><td>Extension for reply within first month</td></tr> <tr><td>1252</td><td>450</td><td>2252</td><td>225</td><td>Extension for reply within second month</td></tr> <tr><td>1253</td><td>1020</td><td>2253</td><td>510</td><td>Extension for reply within third month</td></tr> <tr><td>1254</td><td>1590</td><td>2254</td><td>795</td><td>Extension for reply within fourth month</td></tr> <tr><td>1255</td><td>2160</td><td>2255</td><td>1080</td><td>Extension for reply within fifth month</td></tr> <tr><td>1401</td><td>500</td><td>2401</td><td>250</td><td>Notice of Appeal</td></tr> <tr><td>1402</td><td>500</td><td>2402</td><td>250</td><td>Filing a brief in support of an appeal</td></tr> <tr><td>1403</td><td>1000</td><td>2403</td><td>500</td><td>Request for oral hearing</td></tr> <tr><td>1451</td><td>1510</td><td>1451</td><td>1510</td><td>Petition to institute a public use proceeding</td></tr> <tr><td>1452</td><td>600</td><td>2452</td><td>250</td><td>Petition to revive - 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2. EXTRA CLAIM FEES Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent. Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent. Multiple Dependent Claims <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Fee (\$)</th> <th>Small Entity Fee (\$)</th> </tr> </thead> <tbody> <tr><td>50</td><td>25</td></tr> <tr><td>200</td><td>100</td></tr> <tr><td>360</td><td>180</td></tr> </tbody> </table>						Fee (\$)	Small Entity Fee (\$)	50	25	200	100	360	180																																																																																																																																														
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3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee is \$250 (\$125 for small entity). For each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(n)(1)(G) and 37 CFR 1.15(a). Total Sheets: <input type="text"/> Extra Sheets: <input type="text"/> Number of each additional 50 or fraction thereof: <input type="text"/> Fee (\$): <input type="text"/> Fee Paid (\$): <input type="text"/> 100 = <input type="text"/> / 50 = <input type="text"/> (round up to a whole number) x 250 = <input type="text"/>																																																																																																																																																											
5. OTHER FEE(S) (specify) Non-English Specification: \$130 fee (no small entity discount) Fee Paid (\$): <input type="text"/>																																																																																																																																																											
SUBMITTED BY Name (Print/Type): ROLAND K. BOWLER II Signature: 																																																																																																																																																											
Registration No.: 33,477 Telephone: 847-523-3978 Date: 10 Sept. 2005																																																																																																																																																											

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PATENT**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

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Appl. No.	10/074,970)	
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Confirm. No.	6905)	
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Filed:	13 February 2002)	
Title:	"Reselection Optimization in Mobile Wireless Communication Devices And Methods Therefor"		

SUPPLEMENTAL APPEAL BRIEF
UNDER 37 C.F.R. § 41.37(c)

Assistant Commissioner for Patents
Alexandria, Virginia 22313

Sir:

Real Party In Interest

The real party in interest is Motorola Inc., by virtue of an assignment duly executed by the named inventor(s) and recorded in the Patent Office on 28 March 2002, REEL/FRAME 012741/0374.

Related Appeals & Interferences

There are no related appeals or interferences.

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Status of Claims

Claims 1-20 stand finally rejected under 35 USC 102(e) for anticipation by U.S. Patent No. 6,278,703 (New) in a final Office Action mailed on 4 February 2005.

Status of Amendments

No amendments have been filed subsequent to the mailing of the final Office Action on 4 February 2005.

Summary of Claimed Subject Matter

One claimed embodiment is drawn to a method in mobile wireless communication devices, including performing present signal measurements while receiving present paging information, and performing present reselection processing on prior signal measurements while performing present signal measurements. The prior signal measurements are performed or obtained while receiving prior paging information during an earlier paging period before receiving the present paging information. The paging information is transmitted over some periodic interval depending upon the specification of the particular communication standard. In another embodiment, power consumption of the wireless device is reduced by performing the reselection processing on prior signal measurements obtained or performed while receiving the prior paging information. These and other

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aspects of the invention are discussed more fully page 1, line 16 - page 8, line 19 of the instant specification and are illustrated in the FIGS. 1-4.

Grounds of Rejection for Review on Appeal

The issue is whether Claims 1-20 are anticipated by U.S. Patent No. 6,278,703 (New) under 35 USC 102(e).

Arguments

Rejection Summary

Claims 1-20 stand rejected under 35 USC 102(e) as being anticipated by U.S. Patent No. 6,278,703 (New). Office Action, 18 June 2004.

Summary of New

New discloses performing idle mode reacquisition and handoff in wireless communication systems having base stations that are not synchronized, wherein the remote terminal is assigned paging times that differ from base station to base station. New, col. 3, line 15 - col. 4, line 11. At col. 9, line 50 - col. 10, line 22, referenced by the Examiner to support the rejection of claims, New discloses the processing of multiple base stations in an asynchronous system. In FIG. 4, at interval 416, a remote terminal in the active state adds base station (2) to the reacquisition search list based on a calculation of its reselection timer. At interval 422, the terminal is inactive. At time period

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T_{CR1} in interval 426, the terminal wakes up and performs base station reacquisition using an acquisition search list. At a later time period T_1 in interval 426 new demodulates the paging channel for the preferred base station determined previously. Thereafter, the terminal performs a priority search for new neighboring base stations. At col. 5, lines 53-65, New discusses inactivating the terminal during times other than those corresponding to the paging channel time slot to which the terminal is assigned.

Patentability of Claim 1

Regarding Claim 1, contrary to the Examiner's assertion, New does not disclose or suggest a

... method in a mobile wireless communication device, comprising:
receiving present paging information;
performing present signal measurements while receiving the present paging information;
performing present reselection processing on prior signal measurements while performing present signal measurements.

Contrary to the Examiner's assertion, there is no indication that New receives present paging information while performing present signal measurements. New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. There is no indication that New performs present reselection processing on prior signal measurements while performing present signal measurements. New merely discloses performing reacquisition of the base

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stations on the reacquisition search list before updating the search list. New, col. 10, lines 2-5. Claim 1 is thus patentably distinguished over New.

Patentability of Claim 2

Regarding Claim 2, New does not disclose or suggest, in combination with the limitations of Claim 1

... performing the prior signal measurements while receiving prior paging information before receiving the present paging information.

New does not discuss performing signal measurements while receiving paging information. New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 2 is thus further patentably distinguished over New.

Patentability of Claim 3

Regarding Claim 3, New does not disclose or suggest in combination with the limitations of Claim 1 and any intervening claims.

... reducing power consumption by performing the present reselection processing on the prior signal measurements while receiving the present paging information, performing the prior signal measurements while receiving prior paging information before receiving the present paging information.

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New cannot reduce power as claimed because New does not disclose reacquiring while receiving present paging information. New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 3 is thus further patentably distinguished over New.

Patentability of Claim 4

Regarding Claim 4, New does not disclose or suggest, in combination with the limitations of Claim 1

... reducing power consumption by performing the present reselection processing, based upon the prior signal measurements, and receiving the present paging information in a substantially overlapping time period.

Contrary to the Examiner's assertion, New does not reduce power consumption as claimed since New does not perform reselection processing and receiving paging information during an overlapping time period. New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 4 is thus further patentably distinguished over New.

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Patentability of Claim 5

Regarding Claim 5, contrary to the Examiner's assertion, New does not disclose or suggest in combination with the limitations of Claim 1,

... entering a minimal power consumption mode while not receiving paging information and not performing signal measurements and not performing reselection processing.

Claim 5 is thus further patentably distinguished over New.

Patentability of Claim 6

Regarding Claim 6, New does not disclose or suggest, in combination with the limitations of Claim 1,

... maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

Contrary to the Examiner's assertion, New does not perform reselection processing and receive paging information concurrently. New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 6 is thus further patentably distinguished over New.

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Patentability of Claim 7

Regarding Claim 7, New does not disclose or suggest, in combination with the limitations of Claim 1,

... receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

Contrary to the Examiner's assertion, New performs signal measurements and receives paging information during active states (at blocks 416 and 426 in FIG. 4.). Claim 7 is thus further patentably distinguished over New.

Patentability of Claim 8

Regarding independent Claim 8, contrary to the Examiner's assertion, New does not disclose or suggest a

... method in a mobile wireless communication device that receives paging information and performs neighbor signal measurements, comprising:

- receiving present paging information;
- performing present signal measurements while receiving the present paging information;
- performing reselection processing while receiving present paging information;
- reducing power consumption by performing the reselection processing on prior signal measurements performed while receiving prior paging information.

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There is no indication that New receives present paging information while performing present signal measurements. Also, there is no indication that New performs present signal measurements during reacquisition, at interval (426). New does not reduce power consumption as claimed since New does not perform reselection processing while receiving paging information. New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 8 and the claims that depend therefrom are thus patentably distinguished over New.

Patentability of Claim 9

Regarding Claim 9, contrary to the Examiner's assertion, New does not disclose or suggest, in combination with the limitations of Claim 8,

... entering a minimal power consumption mode when not receiving paging information and not performing signal measurements and not performing reselection processing.

Claim 9 is thus further patentably distinguished over New.

Patentability of Claim 10

Regarding Claim 10, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 8,

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... maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

Contrary to the Examiner's assertion, New does not perform reselection processing and receive paging information substantially concurrently. New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 10 is thus further patentably distinguished over New.

Patentability of Claim 11

Regarding Claim 11, New does not disclose or suggest, in combination with the limitations of Claim 8,

... receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

Contrary to the Examiner's assertion, New performs signal measurements and receives paging information during active states (at blocks 416 and 426 in FIG. 4.). Claim 11 is thus further patentably distinguished over New.

Patentability of Claim 12

Regarding independent Claim 12, contrary to the Examiner's assertion, New does not disclose or suggest a

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... method in a wireless communication device, comprising:
receiving periodic paging information;
performing periodic signal measurements;
performing periodic reselection processing;
reducing power consumption by receiving at least a portion
of the periodic paging information concurrently with performing
at least a portion of the periodic signal measurements and
performing at least a portion of the periodic reselection
processing.

There is no indication that New receives periodic paging information while concurrently performing periodic signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). New performs reacquisition before the paging information is demodulated. Particularly, New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Therefore New does not suggest reducing power consumption as claimed. Claim 12 is thus patentably distinguished over New.

Patentability of Claim 13

Regarding Claim 13, New does not disclose or suggest, in combination with the limitations of Claim 12,

... performing present reselection processing on prior signal measurements while performing present signal measurements.

Contrary to the Examiner's assertion, New does not perform reselection processing on prior signal measurements while performing time present signal measurements. New discloses demodulating the paging channel at time

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period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 13 is thus further patentably distinguished over New.

Patentability of Claim 14

Regarding Claim 14, contrary to the Examiner's assertion, New does not disclose or suggest, in combination with the limitations of Claim 12,

... operating in a minimal power consumption mode when not receiving periodic paging information and not performing periodic signal measurements and not performing periodic reselection processing

Claim 14 is thus further patentably distinguished over New.

Patentability of Claim 15

Regarding independent Claim 15, New does not disclose or suggest a

... method in a TDMA wireless communication device that receives periodic paging blocks and performs periodic neighbor signal measurements, comprising:
receiving a present paging block;
performing present neighbor cell signal strength measurements while receiving the present paging block;
performing reselection processing for prior neighbor cell signal strength measurements while receiving the present paging block and performing the present neighbor cell signal strength measurements.

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Contrary to the Examiner's assertion, there is no indication that New receives a present paging block while performing present neighbor signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. New demodulates the paging channel after reacquisition. Claim 15 and the claims that depend therefrom are thus patentably distinguished over New.

Patentability of Claim 16

Regarding Claim 16, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 15,

... reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging blocks and not performing periodic neighbor cell signal strength measurements and not performing reselection processing

Claim 16 is thus further patentably distinguished over New.

Patentability of Claim 17

Regarding Claim 17, contrary to the Examiner's assertion, New does not disclose

... reducing power consumption by receiving at least a portion of the periodic paging blocks, performing at least a portion of the

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periodic neighbor cell signal strength measurements, and performing at least a portion of the reselection processing concurrently.

Contrary to the Examiner's assertion, New does not perform reselection processing and receive paging information substantially concurrently. New performs reacquisition before the paging information is demodulated. See New at col. 9: 66 - col. 10: 9. Claim 17 is thus further patentably distinguished over New.

Patentability of Claim 18

Regarding Claim 18, New does not disclose or suggest a

... method in a WCDMA wireless communication device that receives periodic paging indicator channel blocks and performs periodic reselection processing, comprising:
receiving a present paging indicator channel block;
performing present signal measurements while receiving the present paging indicator channel block;
performing reselection processing for prior signal measurements while receiving the present paging indicator channel block and performing the present signal measurements.

Contrary to the Examiner's assertion, there is no indication that New receives a present paging indicator channel block while performing present neighbor signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). There is also no indication that New performs present signal measurements during reacquisition in block (426). New demodulates the paging channel after reacquisition. Particularly,

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New discloses demodulating the paging channel at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 18 is thus patentably distinguished over New.

Patentability of Claim 19

Regarding Claim 19, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 19,

... reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging indicator blocks and when not performing periodic signal measurements and not performing reselection processing.

Claim 19 is thus further patentably distinguished over New.

Patentability of Claim 20

Regarding Claim 20, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 15,

... performing signal measurements between receiving periodic paging indicator blocks when the period between the periodic paging indicator blocks is greater than a predetermined period.

Claim 20 is thus further patentably distinguished over New.

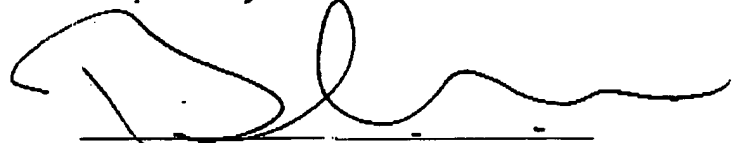
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Prayer for Relief

Kindly reverse and vacate the rejections of claims, in view of the discussion above, with instructions for the Examiner to allow said Claims to issue in a United States Patent without further delay and provide other relief warranted.

Respectfully submitted,



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CLAIMS PENDING ON APPEAL

1. (Original) A method in a mobile wireless communication device, comprising:

receiving present paging information;

performing present signal measurements while receiving the present paging information;

performing present reselection processing on prior signal measurements while performing present signal measurements.

2. (Previously Presented) The method of Claim 1, performing-prior signal measurements while receiving prior paging information before receiving the present paging information.

3. (Previously Presented) The method of Claim 1, reducing power consumption by performing the present reselection processing on the prior signal measurements while receiving the present paging information, performing prior signal measurements while receiving prior paging information before receiving the present paging information.

4. (Original) The method of Claim 1, reducing power consumption by performing the present reselection processing, based upon the prior signal

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measurements, and receiving the present paging information in a substantially overlapping time period.

5. (Original) The method of Claim 1, entering a minimal power consumption mode while not receiving paging information and not performing signal measurements and not performing reselection processing.

6. (Original) The method of Claim 5, maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

7. (Original) The method of Claim 1, receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

8. (Original) A method in a mobile wireless communication device that receives paging information and performs neighbor signal measurements, comprising:

receiving present paging information;
performing present signal measurements while receiving the present paging information;

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performing reselection processing while receiving present paging information;

reducing power consumption by performing the reselection processing on prior signal measurements performed while receiving prior paging information.

9. (Original) The method of Claim 8, entering a minimal power consumption mode when not receiving paging information and not performing signal measurements and not performing reselection processing.

10. (Original) The method of Claim 8, maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

11. (Original) The method of Claim 8, receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

12. (Original) A method in a wireless communication device, comprising:
receiving periodic paging information;

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performing periodic signal measurements;
performing periodic reselection processing;
reducing power consumption by receiving at least a portion of the
periodic paging information concurrently with performing at least a portion of
the periodic signal measurements and performing at least a portion of the
periodic reselection processing.

13. (Original) The method of Claim 12, performing present
reselection processing on prior signal measurements while performing present
signal measurements.

14. (Original) The method of Claim 12, operating in a minimal
power consumption mode when not receiving periodic paging information
and not performing periodic signal measurements and not performing
periodic reselection processing.

15. (Original) A method in a TDMA wireless communication
device that receives periodic paging blocks and performs periodic neighbor
signal measurements, comprising:

receiving a present paging block;
performing present neighbor cell signal strength measurements
while receiving the present paging block;

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performing reselection processing for prior neighbor cell signal strength measurements while receiving the present paging block and performing the present neighbor cell signal strength measurements.

16. (Original) The method of Claim 15, reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging blocks and not performing periodic neighbor cell signal strength measurements and not performing reselection processing.

17. (Original) The method of Claim 15, reducing power consumption by receiving at least a portion of the periodic paging blocks, performing at least a portion of the periodic neighbor cell signal strength measurements, and performing at least a portion of the reselection processing concurrently.

18. (Original) A method in a WCDMA wireless communication device that receives periodic paging indicator channel blocks and performs periodic reselection processing, comprising:

- receiving a present paging indicator channel block;
- performing present signal measurements while receiving the present paging indicator channel block;

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performing reselection processing for prior signal measurements while receiving the present paging indicator channel block and performing the present signal measurements.

19. (Original) The method of Claim 18, reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging indicator blocks and when not performing periodic signal measurements and not performing reselection processing.

20. (Original) The method of Claim 18, performing signal measurements between receiving periodic paging indicator blocks when the period between the periodic paging indicator blocks is greater than a predetermined period.